

Title (en)

ROTARY ENGINE WITH A VANE ACTUATOR

Title (de)

ROLLKOLBENMOTOR MIT EINEM FLÜGELAKTUATOR

Title (fr)

MOTEUR ROTATIF AVEC UN ACTIONNEUR DE VANNE

Publication

**EP 3361098 A1 20180815 (EN)**

Application

**EP 17155935 A 20170213**

Priority

EP 17155935 A 20170213

Abstract (en)

A vane actuator arrangement for a rotary engine is described in which the vane is arranged to be rotationally static with respect to the rotor, and to reciprocate radially inwards and outwards such that the radial motion of the vane follows the eccentric rotary motion of the outer peripheral surface of the rotor (4). The vane actuator is configured to maintain the vane at a predetermined seal gap distance (A6) from the peripheral outer surface of the rotor. The vane actuator comprises a radial follower shaft (A3), arranged to translate eccentric rotation of the first rotor shaft into radial reciprocating motion of the follower shaft with respect to the stator chamber (A1), the follower shaft extending radially beyond the peripheral wall of the stator chamber.

IPC 8 full level

**F04C 18/356** (2006.01); **F01C 1/356** (2006.01); **F01C 11/00** (2006.01); **F01C 21/08** (2006.01); **F02B 53/04** (2006.01)

CPC (source: EP)

**F01C 1/3564** (2013.01); **F01C 11/004** (2013.01); **F01C 21/0836** (2013.01); **F02B 53/04** (2013.01); **F04C 18/3564** (2013.01); **Y02T 10/12** (2013.01)

Citation (applicant)

US 4638776 A 19870127 - CRITTENDEN WILLIAM [US]

Citation (search report)

- [XYI] DE 3930560 A1 19910314 - OPEL ADAM AG [DE]
- [Y] EP 0740051 A2 19961030 - LAMPIS ANTIOCO [IT]
- [YD] US 4638776 A 19870127 - CRITTENDEN WILLIAM [US]

Cited by

CN109026700A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3361098 A1 20180815**; EP 3652439 A1 20200520; WO 2018146333 A1 20180816

DOCDB simple family (application)

**EP 17155935 A 20170213**; EP 18711481 A 20180213; EP 2018053554 W 20180213